

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CS-9300 Potato Wash**

Issue Date: February 2015

Manufacturer:

Chemical Systems

6429 West Jones Avenue

P.O. Box 810

Zellwood, FL 32798

Phone Number: 407.886.2329



24 Hour Emergency Number CHEMTREC: 800.424.9300

2. HAZARDS IDENTIFICATION

GHS Classification: SKIN CORROSION / IRRITATION – Category 1A
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 1

Signal Word: Danger

Pictograms:



Hazard Statements: Harmful if swallowed, in contact with skin or inhaled.
Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention: Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Keep only in original container. Wash hands thoroughly after handling.

Response: Absorb spillage to prevent material damage.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage: Store in corrosive resistant container with a resistant inner liner.

Disposal: See section 13 for waste disposal information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS Number/Name</u>	<u>Percentage</u>
77-92-9 Citric Acid	50%

4. FIRST AID MEASURES

Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion:	Get medical attention immediately. Rinse mouth. Do NOT induce vomiting.
Note to Physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

Flash Point:	Non-flammable
Method:	Non-flammable
Autoignition Temperature:	Non-flammable
Flammable Limits in Air, by Volume:	Upper: Non-flammable Lower: Non-flammable
Extinguishing Media:	Non-flammable/Non-combustible Use water spray to keep fire-exposed containers cool.
Fire Fighting Procedures:	Use water to cool containers, but avoid getting water into containers. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing.
Fire and Explosion Hazard:	None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate unnecessary personnel.

Follow protective measures provided under Personal Protection in Section 8.

Environmental Precautions

According to CERCLA regulations, environmental releases that exceed the RQ must be reported to the National Response Center at 1.800.424.8802. State and local response centers may also need to be contacted.

Contain liquids and prevent discharges to streams or sewers. Large leaks may require environmental consideration and possible evacuation. Do not apply water to the leak.

This product may react strongly with bases.

NEVER FLUSH TO SEWER.

Methods for Cleaning Up

Dry material can be shoveled up. Liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic base. Flush spill area with water followed by a liberal covering of sodium carbonate. All clean-up material should be removed for proper treatment or disposal. Affected soils should be removed and placed in approved containers.

7. HANDLING AND STORAGE

Handling

Avoid breathing the mist or vapors. Do not get in eyes, on skin, or on clothing. Wash contaminated clothing before reuse. Do not take internally. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. Wash thoroughly after handling; exposure can cause burns, which are not immediately painful or visible.

Avoid contact with bases to avoid possible violent reaction.

Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full.

Special Mixing and Handling Instructions

When making solutions, ALWAYS wear ALL protective clothing described in Section 8 of this SDS. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface lukewarm (80°F to 100°F) water, to assure product is being completely mixed as it is added. Avoid contact with tin, zinc, and alloys containing these metals. Do not mix with bases or products that contain chlorine bleach as deadly chlorine gas may form.

Before adding product, ALWAYS empty and clean containers of all residues to avoid a possible VIOLENT reaction between product and unknown residue. Returnable containers should be shipped in accordance with supplier's recommendations. Return shipments should comply with all federal, state, and DOT regulations. All residues should be removed from containers prior to disposal.

Storage

Keep container tightly closed and properly labeled.

Dikes should hold 110% of storage volume.

Aluminum is not an acceptable material of construction with this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS Number/Name

77-92-9 Citric Acid

Exposure Limits

PEL: N/A

TLV: N/A

Engineering Controls

No special ventilation required under normal use.

Where engineering controls are not feasible use adequate local exhaust ventilation wherever mist, spray, or vapor may be generated.

Personal Protection

Respiratory:

Respiratory protection is not required under normal use.

If needed, wear an approved NIOSH/MSHA respirator.

Eye/Face:

Wear chemical safety goggles. (ANSI Z87.1)

When appropriate, use a face shield to protect against splashing.

Skin:

Wear chemical resistant gloves such as rubber, neoprene, or vinyl.

Wash contaminated clothing and dry before reuse.

Whenever there is a possibility of splash or contact, wear chemical resistant clothing and boots.

Discard shoes that cannot be decontaminated.

Other:

Emergency shower and eyewash facility should be in close proximity. (ANSI Z358.1)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
Odor	Mild
Boiling Point	>210°F
Melting Point	N/A
Specific Gravity (Water =1)	1.240
Solubility in Water	Completely soluble
Vapor Pressure (Air = 1) (100% Acid)	N/A
Vapor Density (Air = 1)	N/A
Evaporation Rate (Butyl acetate = 1)	1

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Reacts with:	Bases and chlorine bleach
Hazardous Polymerization:	Will not occur
Comments:	Product is corrosive to tin, zinc, and alloys containing these metals and will react with these metals in powder form. Avoid contact with bases and products that contain chlorine bleach. See Handling and Storage in Section 7.
Hazardous Decomposition Products:	None

11. TOXICOLOGICAL INFORMATION

May cause burns to the eyes, skin, and mucous membrane. May cause permanent eye damage. Inhalation of mist or spray can produce burns of the respiratory tract. Can react violently with bases and other substances.

Potential Health Effects

Routes of entry:	Inhalation, Ingestion, Skin Contact
Target Organs:	Eyes, skin, respiratory tract, and gastrointestinal tract
Irritancy:	Liquid, vapors, or mist may be irritating to eyes, skin, and respiratory tract.
Sensitizing Capability:	None known
Reproductive Effects:	None known
Cancer Information:	None known

Short Term Exposure (Acute)

Inhalation:	Exposure to vapor, mist, or liquid can produce burns of the respiratory tract. Excessive exposures could result in chemical pneumonia.
Eyes:	Contact can cause tissue damage including burns and possibly blindness.
Skin:	Contact can cause severe burns and tissue destruction. Effects may be delayed.
Ingestion:	Corrosive. Severe burns of mucous membranes of mouth, throat, and stomach.

Repeated Exposure (Chronic)

None known

Synergistic Materials

None known

Medical Conditions Aggravated by Exposure

None known

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state guidelines.

13. DISPOSAL INFORMATION

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state, and local health and environmental regulations.

14. TRANSPORT INFORMATION

DOT Identification Number:	UN 3265
DOT Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s. (<i>Citric Acid</i>)*
DOT Hazard Class:	8 (corrosive)
DOT Packaging Group:	III
DOT Hazardous Substance:	Not applicable
DOT Marine Pollutant(s):	Not applicable
Additional Description Requirement:	Not applicable
ERG Number:	154

*Product not regulated in Bulk Rail or Motor Tanks 49 CFR 173.154 (d) (2)

15. REGULATORY INFORMATION

SARA Title III

To aid our customers in complying with regulatory requirements, the following chemicals fall under SARA Title III Hazard categories as listed in 40.CFR.370. Please consult these regulations for details.

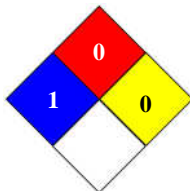
Chemical Name

None

CAS Number

16. OTHER INFORMATION

1	Health
0	Flammability
0	Physical Hazard
B	Protective Equipment



For additional non-emergency health, safety, or environmental information, contact:

Chemical Systems



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